

Syngenta Data

2022 South Dakota Summary

Variety	2022 Yield bu/ac					Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9
	Avg.	Agar, SD	Miller, SD	Selby, SD	Webster, SD				
Ascend-SD	60.5	47.7	65.6	74.4	54.1	64.5	14.8	4	5
LCS Trigger	57.1	45.4	58.9	73.2	50.7	64.6	13.3	6	6
AP Revolution	53.2	39.9	59.4	71.1	42.3	64.5	15.0	4	4
AP Murdock	53.1	41.5	58.8	67.2	44.8	63.6	14.5	4	4
SY Valda	52.9	46.3	56.1	69.0	40.0	64.0	14.5	5	5
SY Rustler	52.8	46.1	58.7	68.7	37.5	63.4	14.6	4	5
Prevail	52.2	41.7	56.7	63.9	46.5	64.1	14.5	4	6
SY Ingmar	50.2	43.7	52.5	68.9	35.7	64.0	15.5	5	5
CP3530	50.1	39.6	52.9	66.0	41.9	63.9	15.2	6	6
AP Gunsmoke CL²	49.0	42.4	48.3	66.7	38.4	63.7	15.3	5	5
SY 611 CL²	48.0	39.2	48.8	66.2	37.8	64.1	15.2	5	4
Mean	53.1	43.8	54.5	70.3	40.1	63.9	14.6		
LSD (5%)	4.8	4.5	5.8	6.0	6.7	1.0	0.8		
CV (%)	5.3	5.0	5.2	4.1	8.0	0.8	2.4		
No. of Locs.	4.0					3.0	3.0		

Numerical ratings: Heading: 1 = early; Height: 1 = short; Lodging: 1 = no lodging; Disease 1 = tolerant

These agronomic assessments are made by Syngenta scientists and reflect each variety's relative performance within these characteristics through the 2022 crop year. Specific conditions may cause variations within those characteristics. These relative protection values are based on current pest and disease populations. These have been known to shift periodically and may cause changes in specific evaluations. Resistance to many other diseases and pests is sensitive to environmental conditions, plant development stages and the presence and intensity of other diseases which may result in specific evaluation inconsistencies. This chart is updated annually to reflect the most current trends.

Syngenta Data, 2020-2022

Three-Year South Dakota Summary Ranked by Three-Year Yield Average

Variety	Yield bu/ac			Protein % 3-yr Avg	Economic Return ¹			Agronomics and Disease				
	3-yr Avg	2-yr Avg	2022		\$/Bu	Gross \$/A	Rank	Heading 1-9	Height 1-9	Lodging 1-9	BLS 1-9	FHB 1-9
LCS Trigger	55.7	51.8	57.1	14.0	8.85	\$493.1	2	6	6	6	3	2
SY Valda	52.4	48.7	52.9	15.3	9.48	\$496.8	1	5	5	5	4	4
CP3530	51.6	49.4	50.1	15.2	9.44	\$486.9	3	6	6	6	4	3
AP Gunsmoke CL²	49.1	47.4	49.0	15.8	9.75	\$478.6	5	5	5	4	5	4
AP Murdock	48.9	46.6	53.1	15.4	9.54	\$466.2	9	4	4	4	4	4
SY Rustler	48.8	47.3	52.8	15.6	9.62	\$469.3	7	4	5	4	5	5
SY Ingmar	48.7	47.1	50.2	16.1	9.84	\$479.2	4	5	5	3	3	3
AP Revolution	48.7	47.6	53.2	15.9	9.77	\$475.6	6	4	4	4	3	3
Prevail	48.2	46.5	52.2	15.4	9.52	\$458.3	10	4	6	5	5	4
SY 611 CL²	48.0	46.0	48.0	15.8	9.74	\$467.7	8	5	4	4	4	3
Mean	49.8	47.8	52.2	15.5								
LSD (5%)	3.4	4.8	6.0	0.4								
CV (%)	6.7	6.3	5.4	2.5								
No. of Locs.	9	6	4	6								

Numerical ratings: Heading: 1 = early; Height: 1 = short; Lodging: 1 = no lodging; Disease 1 = tolerant

2020 Locations: Agar, Northville, and Selby, SD

2021 Locations: Northville and Selby, SD

2022 Locations: Agar, Northville, Selby, and Webster, SD

¹ Economic return calculated using October local cash grain price of \$8.84 for 14% protein and 10-year average MGE protein discount/premium up to 16% protein (Mendota Wheat & Milling Associates, 2022).

These agronomic assessments are made by Syngenta scientists and reflect each variety's relative performance within these characteristics through the 2022 crop year. Specific conditions may cause variations within those characteristics. These relative protection values are based on current pest and disease populations. These have been known to shift periodically and may cause changes in specific evaluations. Resistance to many other diseases and pests is sensitive to environmental conditions, plant development stages and the presence and intensity of other diseases which may result in specific evaluation inconsistencies. This chart is updated annually to reflect the most current trends.